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Notice of Allowability	Application No.	Applicant(s)
	10/706,925	FRANK ET AL.
	Examiner Bruce F. Bell	Art Unit 1746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the application as filed on 11/14/2003.
2. The allowed claim(s) is/are 1-30.
3. The drawings filed on 14 November 2003 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
Paper No./Mail Date _____.
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 03/29/04
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach and/or suggest a method of forming a seal in a fuel cell assembly wherein a plurality of elements separate from one another are assembled so that a groove network the extends through the separate elements is formed so that a source of uncured liquid sealant material can be injected into the groove network to fill the network and at the same time vent gas from the network to deliver the sealant through the groove network so that after curing a seal is formed in the grooves of the network to thereby seal the fuel cell assembly.

The closest prior art to Barton et al (US Patent No. 6057054) shows a membrane electrode assembly having a sealing material impregnated into the porous electrode layers using a flow processable elastomer that is applied to the MEA using a vacuum injection molding process. Barton et al does not show that there is a groove network extending through the separate elements that make up the fuel cell, the filling port open to the exterior in communication with the groove network, nor does the patent show simultaneous venting of the gas from a groove network. The groove network shown in Barton et al appears to be in only the transport plates since the MEA does not extend all the way to the end of the transport plates and the disclosure as set forth shows that the seal 110 in those aspects of the invention as shown by way of Figures 4A-4C show that the seal 110 is not injection molded in this aspect of the invention since the disclosure talks about the compressive forces on the fuel cell stack compressing the seal 110 against the active surface of the separator plates 200. If the cell was already assembled

prior to the injection of the sealant material then there would not be compressive forces on the fuel cell stack to compress the seal when the seal was injection molded but rather the seal would just fill the space and bond with the surfaces in which it is in contact with.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruce F. Bell whose telephone number is 571-272-1296. The examiner can normally be reached on Monday-Friday 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bruce Bell
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BFB

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Primary Examiner
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